

**V-Blade**

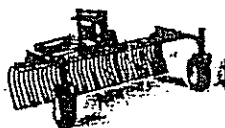
The V-blade is designed for easy snow removal. Electro-hydraulic independent blade wing angling allows easy conversion from V-blade to inverted scoop or straight blade while in motion.

Overall width	69 1/4"
Cutting width	56"
Scoop	48"
V-blade	53"
Overall height	27"
Overall length	37"
Blade height from	
cutting edge	21"
Angling	30° left and right
Skid shoes	Adjustable
Forward tilt	Spring-loaded
Cutting edge	3/8" x 6' hardened
2 position	
Weight	248 lbs.

**Leaf Sweeper**

Clean sweep your lawn of cuttings or fallen leaves. Packing action gets much more into the unit before you need to unload.

Overall width	62"
Overall height	32"
Overall length to back	82"
Width at pickup	40"
Brush	3-paddle staggered
Depth wheels	Semi-pneumatic
Hitch	Right, left or center pull
Carrying capacity	24 cu. ft.
Weight	330 lbs.

**Terra Rake**

The terra rake is an excellent tool to use in preparing ground for seeding. This front-mounted rake has gauge wheels that can be positioned to the front or rear.

Overall width	67"
Maximum working width	65"
Minimum working width (angled)	61"
Working positions	Hydraulically controlled
Self-leveling device	Spring-loaded
Number of teeth	30
Weight	270 lbs.

**Core Aerator**

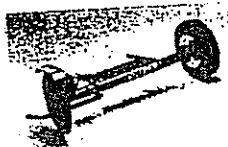
Improve turf with this 40" wide core aerator. Penetrates turf with seven independent 3/4" core tine assemblies which are designed for ease of turning while operating. Weight box carries additional weight if extra penetration is needed.

Overall width	43 1/2"
Working width	40 1/4"
Overall height	28 1/2"
Overall length	30"
Main shaft bearings	Greaseable 1 1/4"
Aerating wheels	7 steel wheels/roller/greaseable
	lubrication fitting
Tines	5 per wheel,
	3/4" core tines
Aerating width (actual)	35"
Aerating width (effective)	45 1/2"
Aerating depth	Up to 3 1/2"
Aerating pattern	8 1/2" x 7" (3.8 holes sq ft.)
Weight	350 lbs. with 4 weights

**Stump Cutter**

Get rid of stumps and prune above-ground roots quickly, easily and neatly. Tough 16" diameter cutterhead is driven by a PTO belt with a right-angle gearbox. Hardened cutters are located to allow movement from side to side, or from top of the stump.

Overall width	34 1/2"
Overall height	18"
Overall length	37"
Cutterhead	24 hardened cutters
Cutterhead diameter	16"
Cutterhead width	3 1/4"
Cutterhead speed	1600 rpm
Cutting depth below ground level	5"
Maximum recommended cutting height above ground level	5"
Weight	250 lbs.

**Disc Edger**

Cut a neat edge along paths, sidewalks and curbs. 15" concave disk adjusts for angles and raises and lowers hydraulically. Pneumatic tire controls height.

Overall width	
Fully closed	50"
Fully closed	
width guard	55"
Fully extended	
width guard	65"
Cutting width from	
center of tractor	
Closed position	25 1/2"
Extended position	35 1/2"
Disc	15" hardened
	concave type
Operation	Right or left hand
Ground clearance (raised)	5" (on Model 430 Max)
Weight	110 lbs.

**Reel Mower**

Reel mower heads are individually supported and float smoothly over bumps and dips. The reels are hydraulically driven, independent of the forward speed of the power unit.

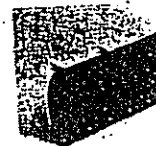
	RMS74	RMS74
Cutting width	74"	84"
Cutting height	1/2" to 1 3/4"	1/2" to 1 3/4"
Overall width	81 1/2"	91 1/2"
Transport width	77 1/2"	87 1/2"
Blades per cylinder	4-blade	6-blade
	6-blade	9-blade
Reel cutting width	28"	30"
Reel over/ride	2"	2 1/2"
Weight	480 lbs.	515 lbs.

**Breacher**

The breacher easily follows line of trench, cutting to a maximum depth of 28". Depth of cut is adjustable with the depth indicator gauge easily visible.

Overall width	37"
Overall length	5' 4"
Overall height	34"
Auger diameter	12"
Chain speed	150 ft./minute
Drive shaft diameter	1 1/2"
Cutting depth	28"
Cutting width	4 3/4"
Weight	350 lbs.

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**Power Angle Blade**

Move dirt or snow with and 60° blades. Feature power angle and safety! Reversible cutting edge. Comes complete with skid shoes.

Overall width	80248 ... 48"
	80260 ... 60"
Overall height	19"
Overall length	32"
Hydraulic angling	30°
Skid shoe	40%
Forward tilt	50%
Reversible	
Cutting edge	3" h
Ground clearance	14"
Weight	80248 ... 160
	80260 ... 185

**Rotary Sweeper**

Ideal for clearing away and light snow on paths, lawns, sidewalks and driveways. Controlled nylon h for left- and right-hand. Bevel gearbox driven. 4 wheels available.

Overall width	81"
Overall height	18"
Overall length	34"
Working width	54"
Hydraulic angling	30°
Speed of broom	300 rpm
Ground clearance	10" on A
Rotation springs	Star
Weight	330
	170

**Aerator**

Improve turf health with wide attachment. 5" can penetrate deep. Weight additional weight if extra is needed. Ground drive greaseable bearings.

Overall width	45"
Working width	40"
Overall height	22"
Overall length	29"
Main shaft bearings	One
Tines	181
Weight	5' k
	170



48" rear wheel assembly, longer justable

1 right

1 left

1 left 430 Max



48" rear wheel assembly, longer justable

1 right

1 left

1 left 430 Max



48" rear wheel assembly, longer justable

1 3/16" diam.



**Tiller**  
Loosen dirt for gardens or turf plantings. Provides 48" working width and a tilling depth of up to 6" in loose soil. Rotor is chain driven and has a solid 1 1/2" steel shaft with 24 cutting tines.  
Working width \_\_\_\_\_ 48"  
Working depth \_\_\_\_\_ 6" max.  
Overall height \_\_\_\_\_ 28"  
Overall width \_\_\_\_\_ 54"  
Overall length \_\_\_\_\_ 38"  
Tines \_\_\_\_\_ 24 replaceable, hardened  
Drive \_\_\_\_\_ Chain drive from tractor in reverse motion  
Operation \_\_\_\_\_ Tractor in reverse motion  
Bearings \_\_\_\_\_ Greaseable  
Weight \_\_\_\_\_ 305 lbs.



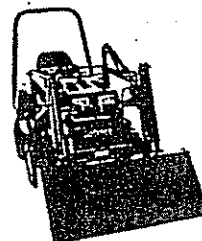
**Boom Mower**  
The boom mower simplifies and eases areas such as ditches, banks, pond edges, and other hard to reach places.  
Overall width \_\_\_\_\_ 115"  
Overall height \_\_\_\_\_ 52"  
Arm up \_\_\_\_\_ 78"  
Reach of arm \_\_\_\_\_ 92" from center line  
Tilt of mower head \_\_\_\_\_ 75° arc (17° to 68° out)  
Angle of operation \_\_\_\_\_ 30° below horizontal  
Width of cut \_\_\_\_\_ 45" above horizontal  
Height of cut \_\_\_\_\_ 1 1/8" to 1 5/8"  
Drive \_\_\_\_\_ Belt drive  
Mower gearbox \_\_\_\_\_ Right angle  
Weight \_\_\_\_\_ 435 lbs.  
Cover resistance \_\_\_\_\_ Four 50 lb. weights  
Gross weight \_\_\_\_\_ 635 lbs.



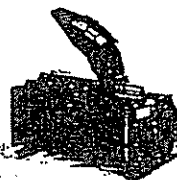
**Chipper/Shredder**  
The Steiner chipper/shredder is designed to grind, shred and chip a variety of materials into a usable processed material to enrich and beautify your landscape. Blower attachment optional.  
Overall width \_\_\_\_\_ 35 5/8"  
Overall height \_\_\_\_\_ 44 1/2"  
Overall length \_\_\_\_\_ 53 1/4"  
Chipper knives \_\_\_\_\_ 4 hardened knives  
Maximum material size for chipper \_\_\_\_\_ 4" diameter  
Maximum material size for shredder \_\_\_\_\_ 1 1/2" diameter  
Weight \_\_\_\_\_ 430 lbs.



**Power Blower**  
150 mph blowing power quickly clears leaves and debris. Also blows water from low-lying areas. PTO belt-driven unit has an 8-blade blower fan and directional discharge chute. Also features an anti-scalp roller.  
Overall width \_\_\_\_\_ 33"  
Overall height \_\_\_\_\_ 18 1/2"  
Overall length \_\_\_\_\_ 26"  
Skid shoe \_\_\_\_\_ Fixed  
Fan \_\_\_\_\_ 8-blade, welded  
Fan diameter \_\_\_\_\_ 14"  
Fan width \_\_\_\_\_ 8"  
Fan speed \_\_\_\_\_ Same as engine rpm  
Air flow \_\_\_\_\_ 3000 cfm at max rpm  
Ground clearance \_\_\_\_\_ 5" on Model 430 Max  
Weight \_\_\_\_\_ 95 lbs.



**Loader**  
This 48" wide bucket has transport lift of 200 lbs. A weight bar with six weights is required for operating the loader on the Model 430 Max tractor. Loader has self-contained hydraulic pump and oil reservoir powered by tractor's front PTO pulley.  
Lift height \_\_\_\_\_ 73"  
Maximum lift capacity \_\_\_\_\_ 365 lbs.  
Recommended maximum transport lift capacity \_\_\_\_\_ 200 lbs.  
Reach \_\_\_\_\_ 30"  
Reach \_\_\_\_\_ 27"  
Bucket volume \_\_\_\_\_ 8 cu. ft. (approx.)  
Bucket width \_\_\_\_\_ 48"  
Weight \_\_\_\_\_ 702 lbs.



**Snow Blower**  
Moves large volumes of snow from sidewalks, driveways and small parking lots. Features 14" auger feed and hydraulically controlled chute with fingertip control. Height of heavy-duty wear bar adjusts with skid shoes. Belt driven.  
Overall width \_\_\_\_\_ 49 1/2"  
Overall height \_\_\_\_\_ 51"  
Overall length \_\_\_\_\_ 43"  
Opening Size \_\_\_\_\_ 25" high x 48" wide  
Auger \_\_\_\_\_ 14" diameter open center  
Blower \_\_\_\_\_ 20" diameter 3 blades  
Auger Speed \_\_\_\_\_ 175 rpm  
Blower Speed \_\_\_\_\_ 800 rpm  
Chute \_\_\_\_\_ 9" diameter  
Height of Cut \_\_\_\_\_ Adjustable skid shoes, 0" to 1 1/4"  
Weight \_\_\_\_\_ 425 lbs.

NOTE: These specifications are subject to change without notice.

Not all specifications are shown for each attachment. For complete information, contact your nearest Steiner dealer.

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## Attachments

Attachment	Model 525	Model 430 Max	Model 410	Model 220
Aerator, spds	•	•	•	•
Aerator, core	•	•	•	•
Blade, 60° power angle	•	•	•	•
Blade, 48° power angle	•	•	•	•
Blade, sand	•	•	•	•
Blade, V-blade	•	•	•	•
Chipper/shredder	•	•	•	•
Disc edger	•	•	•	•
Loader, front end	•	•	•	•
Mower, boom	•	•	•	•
Mower, 48" rotary	•	•	•	•
Mower, 60" rotary	•	•	•	•
Mower, 72" rotary	•	•	•	•
Mower, rotary mulch/ rear discharge	•	•	•	•
Mower, tree fern	•	•	•	•
Mower, triplex reel 4-blade, 74"	•	•	•	•
Mower, triplex reel 6-blade, 74"	•	•	•	•
Mower, triplex reel 9-blade, 74"	•	•	•	•
Mower, triplex reel 6-blade, 84"	•	•	•	•
Power blower	•	•	•	•
Silt scoop, 44"	•	•	•	•
Snow blower, 48"	•	•	•	•
Stump cutter	•	•	•	•
Sweeper, brush	•	•	•	•
Sweeper, 54" rotary	•	•	•	•
Terra rala	•	•	•	•
Tiller	•	•	•	•
Tranchar	•	•	•	•

NOTE: Model 202 is exclusively a mowing machine.

Our tractors are capable of many things.

All it takes is five minutes or less.

Versatility is as much a part of the Steiner story as superior engineering or long-term reliability. Using our Quick-Hitch™ attachments, your Steiner becomes capable of almost any turf or grounds maintenance task within one to five minutes. Discover why so many Steiner owners think of their turf tractors as true all-purpose machines.

## Specifications

	Model 525	Model 430 Max	Model 410	Model 220	Model 220
Dimensions					
Overall width	56" (142 cm)	44"	43 1/2"	54"	58"
Overall length	81" (204 cm)	64"	69"	82"	91 1/2"
Overall height	48" (122 cm)	46"	47"	45"	45"
Wheelbase	49" (125 cm)	38"	39"	50"	43"
Turn radius	63" (160 cm)	46"	43"	14"	zero
Weight	1520 lbs. (690 kg)	1000 lbs. air-cooled 1100 lbs. water-cooled	950 lbs.	1185 lbs. - Onan 1295 lbs. - Kubota	1214 lbs. (includes deck)
Engines	Kubota 905, 23.5 hp water-cooled	Onan P220 Performer, 20 hp air-cooled Kubota Diesel D722, 21 hp water-cooled Kubota Gas WG750, 21 hp water-cooled Kohler Command V-Twin, 25 hp air-cooled	Onan P216 Performer, 16 hp air-cooled	Onan P220 Performer, 20 hp air-cooled Kubota Diesel D600B, 16.5 hp water-cooled Kubota Gas WG750, 21 hp water-cooled	Onan P220 Performer, 20 hp air-cooled
Drives/Trails					
Transmission	Hydrostatic	Hydrostatic	Hydrostatic	Hydrostatic	Hydrostatic
Transaxles	Peerless 2500, dual-speed	Peerless 2500, dual-speed	Peerless 2500	Peerless 2500 2-speed w/diff lock	Peerless 1300.
Speeds	Forward: 0-9 mph, high 0-4.7 mph, low Reverse: 0-5.7 mph, high 0-2.9 mph, low	Forward: 0-8.5 mph, high 0-4.4 mph, low Reverse: 0-5.3 mph, high 0-2.8 mph, low	Forward: 0-9 mph Reverse: 0-7 mph	Forward & Reverse: 0-11 mph, high 0-6 mph, low	Forward: 0-6.25 mph Reverse: 0-4 mph
Steering	Hydraulic power steering	Hydraulic power steering	Hydraulic power steering	Hydraulic power steering	Twin steering w/independent control of each drive wheel
Brakes	Dry disc type (front & rear)	Dry disc type	Dry disc type	Individual wheel drum	Dynamic braking through hydrostatic transmission Manual parking
Tires					
Turf type	Turf type, 24 x 13.00-12, 4-ply Bar type, 26 x 12.00-12	Turf type, 20 x 10.00-8, Turfmate Traction Bar type, 21 x 11.00-8, Rawhide	Turf type, 20 x 10.00-8, Traction Bar type, 21 x 11.00-8, Rawhide	Drive: 23 x 10.5-12 Goodyear Softrac, 2-ply Rear: 18 x 8.5-8 Ribbed, 4-ply	Front: 20 x 8.00 x 10 4-ply rating tubeless Rear: 13 x 5.00 x 6 4-ply rating tubeless
Electrical					
Starting	12 volt, key switch	12 volt, key switch	12 volt, key switch	12 volt, key switch	12 volt
Battery	12 volt, group 26	12 volt, group 26	12 volt	12 volt, group 26	12 volt, maintenance free
Charging	30 amp auto				
Fuel System					
Tank capacity	7 gallons, US	8 gallons, US	5 gallons, US	6 gallons, US	7 gallons, US

These specifications are subject to change without notice.

We invite you to experience Steiner engineering at your nearest Steiner dealer.

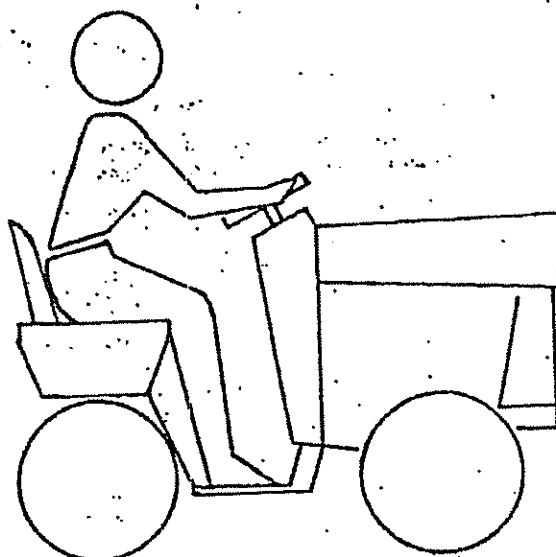
**STEINER**

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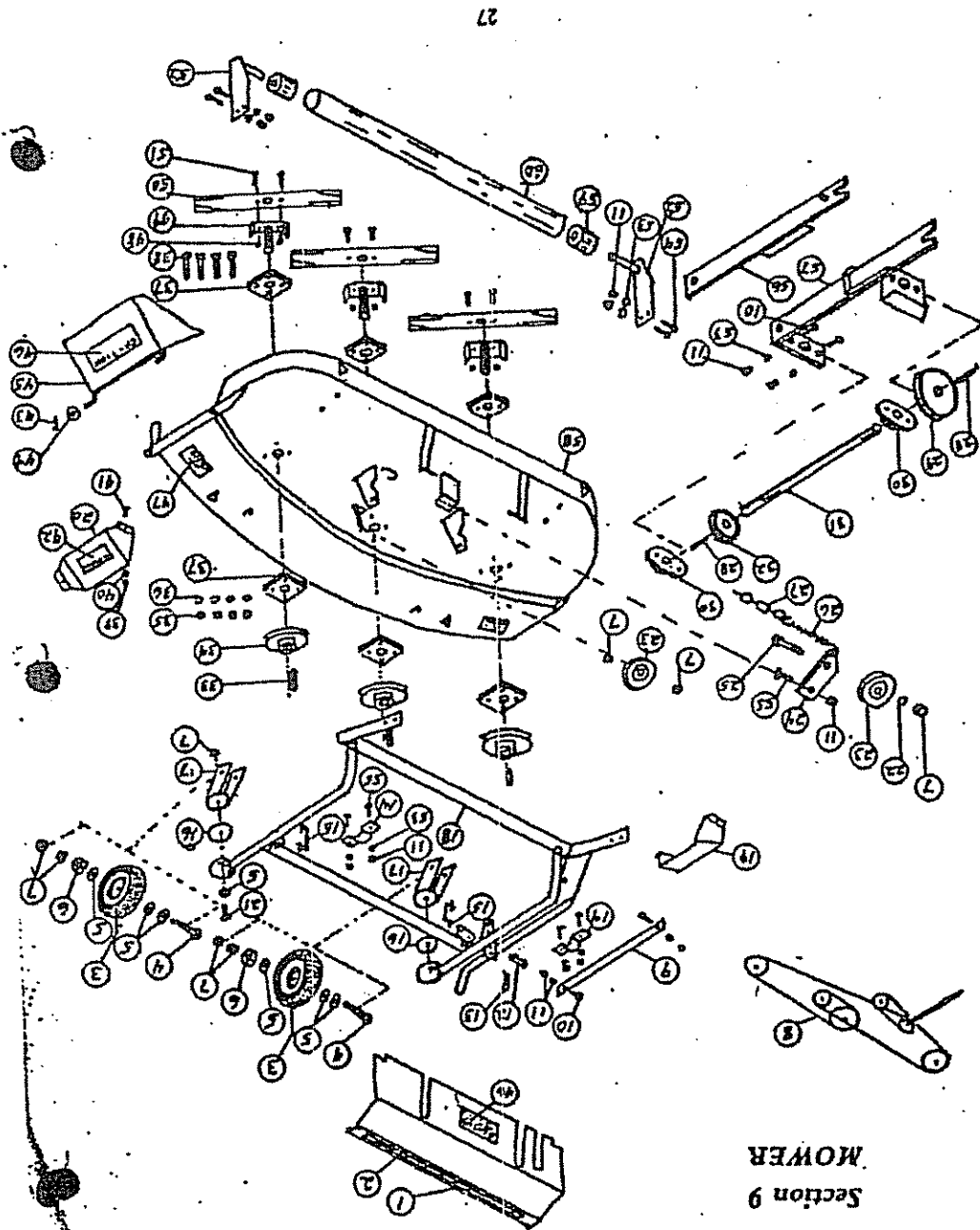
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**80-81**  
**OWNERS MANUAL**



REF.	PART NUMBER	DESCRIPTION	Quan
1	AOS 6032 M	Shield, upper 48"	1
2	AOS 6033 M	Shield, upper 60"	1
3	AOS 001	Decal, Steiner	1
4	AOP 5008 M	Wheel Castor	2
5		Bolt, 1/2 x 4-1/2	2
6		Washer, flat	2
7		Spacer, 5/8 nut	2
8		Nut, 1/2"	9
9	AOP 8004 M	Bell, drive 48" (A128)	1
10	AOP 8005 M	Bolt, drive 60" (A144)	1
11	AOS 4057 M	Strap, 1/2" Enk 48"	1
12	AOS 4058 M	Strap, 1/2" Enk 60"	1
13		Bolt, 3/8 x 1-1/2	6
14		Nut 3/8	17
15		Pin clevis 5/16 x 1-1/2	1
16		Clip pin 3/32	1
17	AOS 6034 M	Clamp, frame	2
18	AOS 4059 M	Link, LR	2
19	AOS 5009 M	Washer, tankon	2
20	AOS 5010 M	Castor	1
21	AOS 6035 M	Frame, upper carrier 48"	1
22	AOS 6036 M	Frame, upper carrier 60"	1
23	AOS 6037 M	Shield, left 48"	1
24	AOS 6039 M	Shield, left 60"	1
25	AOS 6038 M	Shield, right 48"	1
26	AOS 6040 M	Shield, right 60"	1
27		Bolt - 1/2 x 1-1/2	2
28		Washer, lock 1/2"	1
29	AOP 8006 M	Pulley, idler 4-1/2" - 1/2" bore	2
30	AOS 6041 M	Bracket idler	1
31		Bolt, 1/2 x 2	1
32	AOP 4022 A	Spring	1
33		Chain, 3/16 4-links	1
34		Key, straight - 3/16 x 1	2
35	AOP 8007 M	Pulley, 5" - 3/4" bore	1
36		Bearing, 3/4" 2 bolt flange	2
37	AOS 8008 M	Shaft, drive	1
38	AOP 8009 M	Pulley 4" 3/4" bore	1
39		Key straight, 3/16 x 1	3
40	AOP 8010 M	Pulley, 5" - 1" bore - 48"	3
41	AOP 8011 M	Pulley, 6" - 1" bore - 60"	3
42		Nut, 7/16 SAE	12
43		Washer lock - 7/16	12
44		Bearing, 4 bolt flange - 1" bore	6
45		Bolt - 7/16 x 2 SAE	12
46		Nut - 1/4"	4
47		Washer lock - 1/4"	4
48		Bolt 1/4 x 3/4	1
49	AOS 004	Decal, warning	5
50		Cotter pin - 1/8" x 1"	1
51	AOS 6042 M	Washer, flat 3/8	1
52	AOS 005	Chute discharge	1
53	AOS 006	Decal, caution	2
54		Decal, danger	2
55		Nut, 5/16	6
56	AOS 8012 M	Spindle, mower	3
57	AOP 8013 M	Blade mower - 48"	3
58	AOP 8014 M	Blade, mower - 60"	3
59	AOP 8015 M	Bolt special	6
60	AOS 6043 M	Support roller left - 48"	1
61	AOS 6045 M	Support roller left - 60"	1
62	AOS 6044 M	Support roller right - 48"	1
63	AOS 6046 M	Support roller right - 60"	1
64		Washer, lock 3/8	12
65		Bolt - 3/8 x 1-1/4"	4
66		Bolt - 3/8 x 1"	5
67	AOS 6048 M	Arm, attaching right	1
68	AOS 6047 M	Arm attaching, left	1
69	AOS 6049 M	Deck - 48"	1
70	AOS 6050 M	Deck - 60"	1
71	AOS 8016 M	Bearing, wood, roller	2
72	AOS 8017 M	Roller - 48"	1
73	AOS 8018 M	Roller - 60"	1

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# JACOBSEN®

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6

## **HR-5111™** **4WD Hydraulic Mower**



***The Professional's Choice on Turf***



## HR-5111: The All-Hydraulic

The HR-5111 delivers a productive 11-foot cut to roughs, parks, and other large turf areas. Its three all-hydraulic mowing decks, four-wheel-drive (4WD) traction, and a comfortable operator station, make the HR-5111 the right mower for your big jobs.

**All-Hydraulic, High-Production Mowing**  
The HR-5111's revolutionary all-hydraulic, rear discharge decks deliver the best quality cut of any high-production mower. Individual hydraulic motors drive each blade for unmatched cutting power.

The floating-deck design, with large caster wheels and anti-scalp rollers, follows turf contours and reduces the risk of scalping. Cutting heights are adjustable from 1 to 5 1/4 inches. Spring washers on side deck mounting arms absorb impact. Mow with one, two, or all three decks, to match conditions.

The HR-5111's agile, compact design with hydrostatic transmission and rear-wheel power steering, means close trims around trees and obstructions. In open areas, the HR-5111 cuts up to 65 acres per day.



No Belts,  
No Pulleys,  
No Kidding

Individual hydraulic motors power each of the HR-5111's blades for a quality cut without the hassle of belts, pulleys, idlers, deck lids, or PTO shafts. Blades rotate in opposite directions for even clippings dispersal.

### 4-Wheel-Drive Traction

Hydrostatic 4WD with differential lock, tackles tough hills that stall the competition. A hydraulic weight-transfer system shifts the weight of the deck to the vehicle for hill climbing.\* Unlike mechanical 4WD, hydrostatic 4WD rotates each wheel at the correct speed during turns, to prevent turf scuffing and provide full traction.

### Built For Trouble-Free Operation

The HR-5111 spends its time working. All-hydraulic decks mean no belts, deck lids, blade pulleys and idlers to fit. Each motor has self-lubricating spindles for less maintenance.

The wing decks tilt vertically when raised, and the front deck tilts vertically by removing two pins at the rear of the

deck, for easy cleaning and servicing. Diagnostic ports make it easy to check hydraulic pressures.

### Economical Diesel Power

The HR-5111 is powered by a reliable, efficient, 51-horsepower, liquid-cooled diesel engine. The engine is fully enclosed and isolation mounted for cleaner, quieter operation. A top-mounted, heavy-duty air cleaner protects the engine from harmful dirt and clippings.

The hood tilts up and back for full access to the engine. The hydraulic oil cooler slides away from the radiator for cleaning. The HR-5111's durable fiberglass body keeps its good looks, even in harsh conditions.

■ Adjustable seat, cruise control, tilt steering wheel for operator comfort.

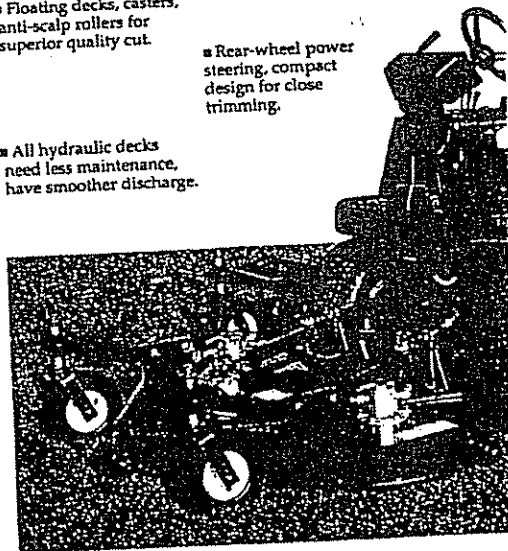
■ Hydrostatic 4WD for sure traction without turf damage.

■ Ergonomic design puts controls, instruments in easy reach, sight.

■ Floating decks, casters, anti-scalp rollers for superior quality cut.

■ Rear-wheel power steering, compact design for close trimming.

■ All hydraulic decks need less maintenance, have smoother discharge.



## 4WD High Production Rotary

The box channel steel frame and heavy-duty axle can handle years of mowing. And it's backed by a two-year/1,500-hour warranty.\*\*

### Built For Operator Comfort

Your operators will like the HR-5111's comfortable high-back seat, cruise control and tilt steering wheel. Good visibility and ergonomic controls keep them productive without strain. A full array of gauges and warning lights keep operators aware of vital mower functions. For extra protection, a horn sounds if engine coolant or hydraulic oil begin to overheat.

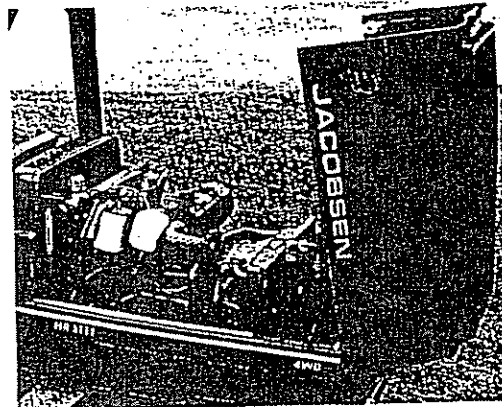
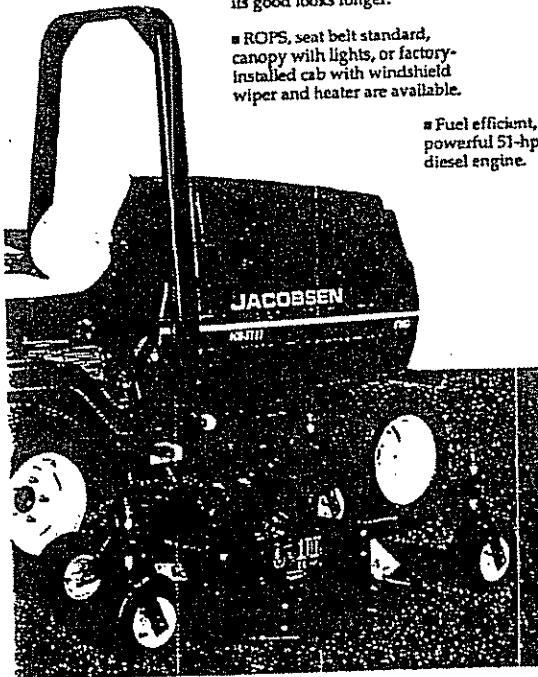
A ROPS and seat belt are standard on the HR-5111. A canopy with lights and flashers, or a factory-installed cab with windshield wiper and heater are also available.

■ Diagnostic ports to check hydraulic pressures.

■ Fiberglass body keeps its good looks longer.

■ ROPS, seat belt standard, canopy with lights, or factory-installed cab with windshield wiper and heater are available.

■ Fuel efficient, powerful 51-hp diesel engine.



HR-5111's 51-hp diesel is fully enclosed to keep out debris. Hood tilts up and back for access to engine.

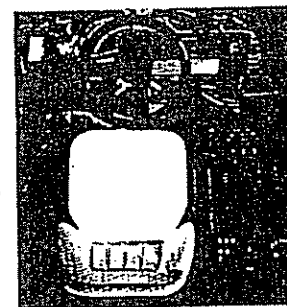
The HR-5111 features dynamic braking, along with heavy-duty, hydraulic disc brakes on the drive wheels for sure stopping.

For year-round versatility, a 62-inch snow thrower and 72-inch rotary brush are also available.

For quality, high-production mowing, versatility, and operator comfort, in a reliable package, call your Jacobsen dealer today for a demonstration of the HR-5111.

\*Consult your owner's manual for safe operation on slopes.  
\*\*See your Jacobsen dealer for complete warranty details.

Adjustable suspension seat, tilt steering wheel, cruise control for operator comfort. Complete instrument panel keeps operator informed of mower functions at a glance.

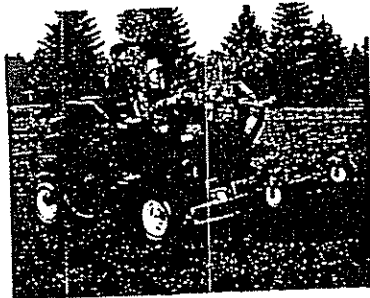


**SPECIFICATIONS**

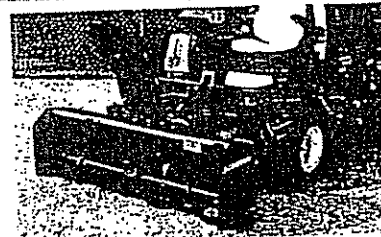
<b>ENGINE:</b>		Model..... Kubota VZ200D 4-cylinder
		liquid-cooled, diesel
Bore and Stroke.....		3.43 in. x 3.64 in. (87 mm x 92.4 mm)
Compression Ratio.....		22:1
Horsepower (at 2,500 rpm).....		51 (38 kW)
Displacement.....		134.1 cu. in. (2197 cc)
Torque (at 1,200 rpm).....		109 ft. lbs. (147.8 Nm)
Fuel Injection Pump.....		Boach
Air Cleaner.....		Remote Cyclopac cartridge type
Cooling.....		Pressurized, sealed cooling system, 7-blade fan, coolant capacity: 2 gal. (7.6 L)
Lubrication.....		Fully pressurized
Oil Filter.....		Replaceable spin-on type
Electrical System.....		45 amp alternator, 750 CCA heavy-duty battery, circuit breakers
<b>VEHICLE:</b>		Transmission..... Hydrostatic
		Traction System..... Hydrostatic closed-loop system, variable displacement piston pump, fixed displacement piston motor to front differential axle with integral gear reduction, motor on rear wheels electro-hydraulically engage/ disengage for 4V/D
Differential.....		Single speed, differential lock electro-hydraulically activated
PTO Drive.....		Hydraulic
Implement L/U.....		3 spool manual valve
Steering.....		Power, rear wheel, tilt steering wheel
Tires: Front (Drive).....		26 x 12-12
Rear (Steering).....		23 x 10.5-12
Brakes.....		Service: Dynamic braking from transmission, hydraulic disc brakes on front wheels
Parking Brake.....		Independent disc on drive line
Hydraulic System.....		17 gal. (64.3 L) reservoir, "O" ring face seal fittings, 10 micron full flow filtration, suction screen at hydro, oil cooler, diagnostic test ports
Speeds: Forward (2WD).....		0-15 mph (0-24.1 km/h)
(4WD).....		0-8.4 mph (0-13.5 km/h)
Reverse (2WD).....		0-6 mph (0-9.6 km/h)
(4WD electronically locked out)		
Instruments.....		Voltmeter, hourmeter, tachometer, water temperature gauge, fuel gauge
Indicators.....		Glow plug, engine oil pressure, water temperature, air filter restriction, hydraulic oil filter pressure, oil temperature, hydrostatic low charge pressure, filter press are

<b>VEHICLE:</b>		Controls..... Throttle, hydraulic lift/lower, ignition switch, glow plug switch, PTO switch, individual mower switches, hydro pedal, brake, differential lock switch
		Fuel Capacity..... 20 gal. (75.7 L)
		Seat..... Adjustable high-back, suspension
<b>DECKS:</b>		Size..... (1) 64 in. (1.62 m) front deck, fully floating (2) 42 in. (1.06 m) wing decks, fully floating (decks can be run in any combination of 1, 2 or 3)
		Blades..... (7) 23 in. (58 cm)
		Blade Drive..... Hydraulic motors with integral bearings, self-lubricating
		Cutting Width..... 134 in. (3.40 m)
		99 in. (2.51 m) with one wing deck raised, 63.5 in. (1.61 m) with both wing decks raised
		Discharge..... Rearward
		Caster Wheels..... 4 x 11 pneumatic tires
		Cutting Heights..... 1 in. to 5.5 in. (24.5 mm to 139.7 mm)
<b>SNOW THROWER:</b>		Drive..... Hydraulic
		Width..... 62 in. (1.57 m)
		Cutting Height..... 23 in. (58 cm)
		Length..... 34.875 in. (75 cm)
		Chute Height..... 53 in. (1.3 m)
		Auger Diameter..... 14 in. (35 cm)
		Electric Chute Rotation..... 220 degrees
		Fan Housing Diameter..... 18 in. (45 cm)
		Chute Diameter..... 10.5 in. (26 cm)
		Weight (approx.)..... 450 lbs. (204.3 kg)
<b>ROTARY BRUSH:</b>		Drive..... Hydraulic
		Diameter..... 25 in. (63 cm)
		Width..... 72 in. (1.83 m)
		Maximum sweep..... 62 in. (1.57 m)
		Caster wheels..... (2) 4 in. x 11 in. pneumatic tires
		Weight (approx.)..... 325 lbs. (147.6 kg)
		Brush Material..... Wafer-style polypropylene
		Brush Swing..... Mechanical, lock positions 30 degrees right, left, straight Front protective flap
<b>DIMENSIONS:</b>		Weight (transport)..... 3,381 lbs. (1,534 kg)
		Height (with ROPS)..... 81 in. (2.05 m)
		Width (mowing)..... 139 in. (3.53 m)
		Width (transport)..... 93.5 in. (2.37 m)
		Length..... 144 in. (3.66 m)
		Turning Radius (uncut circle)..... 28 in. (71 cm)
		Wheelbase..... 67.75 in. (1.72 m)
		Ground Clearance..... 8 in. (203 mm)
<b>ACCESSORIES:</b>		Mulcher kit, Rear wheel weights, Auxiliary work light kit, T.U.V. (road light kit), Canopy with liner, headlights, flash- ers, Cab with wiper, heater (factory installed)

NOTE: Specifications, while correct at time of printing, may change without notice.  
This product has been tested and complies with B71.4-1990, ANSI voluntary safety  
specifications for commercial turf care equipment.



Wing decks fold tight to mower for narrow  
93.5-inch transport width.



Add a 62-inch hydraulic snow thrower, or 72-inch  
rotary brush for year-round use.

# JACOBSEN **TEXTRON**

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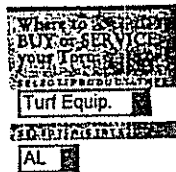
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## **GROUND & INDUSTRIAL MANAGEMENT**

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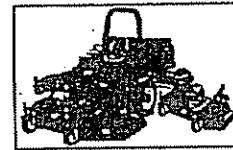
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## **Groundsmaster® 580-D Mowers**

- The leader in productivity. This large scale rotary mower combines 16 foot productivity with 18 inch trimability.
- This agile performer mows up to 14.5 acres per hour. It tackles tough, tall or wet grass and lets you adjust its cutting widths from 8.5 to 16 feet on the fly.
- You can trim less than an 18 inch circle around trees; around a 90° corner, or turn back 180° on track with no uncut grass remaining. Individual dual wheel brakes assist to provide smooth control with any turn.
- Three independent cutting units raise or lower on the go. Side decks raise to mow either 92 inch or 12 foot swaths.
- The Breakaway Feature is a Toro exclusive. Should the operator misjudge distance, the outboard cutting unit will pivot away on a rotating push arm from the object that's been hit. To reset, simply raise the cutting unit.
- Optional 4WD available.
- Access to the engine, transmission and cooling system is easy and fast by snapping off a few panels and removing shrouds.
- The Groundsmaster 580-D is truly a machine for all seasons with the these attachments: Cab with ROPS, Snowthrower, Road Light Kit, Canopy with 2 Post and Rotary Broom.

### **Groundsmaster Rotary Mowers**



#### **Groundsmaster® 200**

#### **Groundsmaster® 300** *72 Flexdeck™ for 300 Series*

#### **Groundsmaster® 3000**

#### **Groundsmaster® 3500-D** *Demo Request*

#### **Groundsmaster® 455-D**

#### **Groundsmaster® 580-D**

**SPECIFICATIONS**  
**2 YEAR WARRANTY**  
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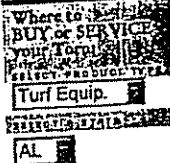
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## Specifications for Groundsmaster® 580-D

GROUNDMASTER® 580-D, MODEL 30581 SPECIFICATIONS*	
ENGINE	Mitsubishi Model S4F-T, four cylinder in-line, 4 cycle, liquid cooled, turbo-charged diesel engine; 80 hp (59.6 kW) at governed maximum of 2750 rpm. 80.4 cu. in. (2956 cc) displacement, vertical overhead valve, direct injection. Forced feed lubrication w/ trochoid gear pump. 8.5 quart (8 liter) capacity. 17.1 compression ratio. 12 volt (2.2 kW) gear reduction starter. Heavy duty centrifugal air cleaner with replaceable element. Draws air from screened air intake. Muffler double wrapped with insulation and mounted under hood. Engine hood supported when raised by gas cylinder suspension. Lined with barrier type sound reduction material. Easily removed side panels provide improved engine access.
RADIATOR AND OIL COOLER	Magnetically latched air intake grill and shielding are easily removed to provide access to the mid-mount agricultural-type radiator with wide spaced fins (5 fins/in.). Oil cooler hinges away from the radiator to provide easy service access. 3.9 gal. (14.7 liter) coolant capacity. Variable speed radiator fan controlled by engine temperature. Full flow hydraulic oil cooler, (7 fins/in.).
FUEL SYSTEM	Direct mechanical injection system with replaceable fuel filter and water separator. Front console warning light indicates water in fuel. Fuel capacity: 28 gal. (106 liters), No. 2 diesel fuel.
FRAME CONSTRUCTION	5" x 9 lb/ft welded structural steel channel. Six tie down loops; 2 front, 2 center and 2 at rear of frame.
TIRES/WHEELS	Front: (2) 31 x 12.50-15, 8-ply high flotation turf tires w/ tubes. Rear (2) 23 x 10.50-12, 6-ply tubeless turf tire.
BRAKES	Front multiple disc brakes. Fully sealed in cast housings. Hydraulic service brake via a brake pedal operated by the right foot. Mechanical steering brakes via two pedals which lock together for parking brake function. Dynamic braking through closed-loop hydrostatic drive.
STEERING	Tilt 15.5" (39 cm) steering wheel and tilt steering tower; released and locked by a patented single lever control. Dual hydraulic cylinder power steering for extra sharp turning. Eaton Charlyn Series 4 steering valve, load reaction type, 1500 psi (103.4 bars) rated.
TRACTION SYSTEM	Hydrostatic closed loop system, consisting of Sundstrand Series 40 hydrostatic pump and two speed motors, and Auburn Model 6 industrial planetary gear reduction at the drive wheels. Includes system reliefs of 5000 psi (344.8 bars) and bypass valve for towing. Planetaries for radial load rated @ 10,000 lbs. (4536 kg) and output torque of 50,000 lb-in. Maximum system flow is 28 gpm (105.9 liter per minute). Hydraulically assisted single foot operated traction pedal with adjustable speed stop controls forward/reverse ground speed. Electromagnetic speed control actuated from console by push button switch. Disengage speed control by service brake or on/off switch. Control of speed can be changed without disengaging.
GROUND SPEED/ CLEARANCE	Infinitely variable speed. Forward speeds: 0-7.5 mph (12.1 km/h) - mow; 0-20 mph (32.2 km/h) - transport. Reverse speeds: 0-3 mph (4.8 km/h) - mow; 0-8 mph (12.9 km/h) transport. Ground clearance: 8" (20.3 cm).
CONTROLS	Individual deck lift levers, ground speed high range/low range switch, mow/transport mode selector, forward/reverse selector, on/off switch, etc.

<http://www.toro.com/grounds/products/groundsmaster/specs/specs580-d.html>

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	PTO switch, hand operator control, speed control control switch, speed engage button and ignition switch. Single implement shut-off control. Steering tower and wheel tilt lever. Service brake pedal, steering brake pedals with parking brake latch, foot operated traction pedal.
GAUGES/ DIAGNOSTICS	Gauge package includes fuel gauge, engine water temperature, engine hour meter, and engine oil pressure. An indicator light and audible warning of low oil pressure, high water temperature, no charge, water in fuel, air cleaner service, hydraulic oil filter service, low hydraulic oil, and high hydraulic oil temperature. Indicator lights on steering tower to show parking brake on, speed control engaged, and high range ground speed. 8 hydraulic test ports easily accessible without removing panels to diagnose system pressures. The Automated Control Electronics™, ACET™, system allows precision timing and control of machine functions for maximum reliability. Standard diagnostic display connects to an electronic control unit to pinpoint any electrical problems quickly and easily. Available DATA LOG™ system allows mechanic to find intermittent problems.
INTERLOCK SYSTEM	Prevents starting of engine if traction pedal is out of neutral. Stops engine if operator leaves seat or if parking brake is "on" with traction pedal out of neutral. Prevents engaging of PTO if operator is out of seat, engine off or all decks raised. Prevents engagement of high range ground speed mode if a cutting unit is lowered or engine is off.
ELECTRICAL FEATURES	12 volt automotive type electrical system. Dual maintenance free batteries, cold cranking 1300 amps at 0°F (-18°C), 250 minute reserve capacity at 80°F (27°C). 35 amp alternator with I/C regulator/rectifier. Seat switch, PTO and traction interlock system.
OVERLOAD PROTECTION	A 40 amp circuit breaker with reset button is located under the control panel for protection of the entire wiring circuit. The inputs to the solid state controller are protected by a 5 amp fuse for logic and two 15 amp fuses for the power circuits. ATO type fuses.
SEAT AND STORAGE	Deluxe seat with armrests, backrest and suspension. Adjustable for weight, fore/aft travel and height. Large tool tray storage located under hinged floor plate. Small storage and beverage holder beside control panel.
IMPLEMENT DRIVE	Hydraulic implement drive to all cutting units.
CUTTING UNIT CONFIGURATION	Consists of one 92" (234 cm) front center Triflex cutting unit and two 57" (145 cm) outboard cutting units.
MOWING RATE/WIDTH	Mows up to 14.5 acres/hr (5.9 hectares/hr) at 7.5 mph (12.1 km/h) with use of all cutting units. (Assumes no overlap and stops.) Total cutting width: 192" (488 cm).
HEIGHT OF CUT RANGE	Low range: 1-4" (2.5-10.2 cm). High range: 2.5-5.5" (6.3-14 cm).
CUTTING UNIT CONSTRUCTION	10 gauge steel, 5.5" (14 cm) deep shell. Welded construction reinforced with 7 gauge plates and 10 gauge channels. Leading edge constructed in closed triangular cross section to provide additional reinforcement.
BLADES	20" (50.8 cm) long, .25" (6.3 mm) thick, 2.5" (6.3 cm) wide, heat treated steel blades. Triflex cutting unit: 5 blades; Outboard cutting units: 3 blades each. All blades and spindles are interchangeable.
ANTI-SCALP DEVICES	Each cutting unit equipped with adjustable skids. Anti-scalp cup located on each blade.
CUTTING UNIT COVERS	Impact resistant molded plastic covers. Four covers per Triflex and two per outboard cutting unit. Easy to remove and replace without tools. Held down with high strength permanent magnets.
PATENTED AUTOMATIC WEIGHT TRANSFER	Automatic hydraulic counterbalance transfers weight from the cutting units to the traction unit for improved traction and better deck flotation. Under demanding traction situations the system automatically transfers additional weight from the cutting units to the traction unit.
WARRANTY	Two year limited warranty. Refer to the Operator's Manual for further details.
CERTIFICATION	Certified to meet ANSI specifications B71.4-1990 and applicable Federal


Grounds and Industrial Management

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and State OSHA regulations based thereon.

• Specifications and design subject to change without notice.

► **Groundsmaster 580-D Page**

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12/28/2000

JA - 0440



GCSAA SHOW 2/98  
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8

Model 425D



*"Quality Rotary Mowers For A World That Isn't Flat"*

**astec®**

JA - 0441

## The Model 425D...Redefining Performance Standards

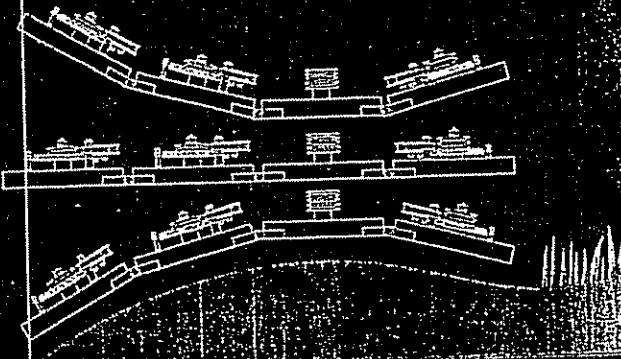
Every few decades a piece of equipment redefines a product category. Get your dictionary out. Under commercial finish mowers cross out the highest standard and replace it with just one thing... The LasTec Model 425D.

Human nature is an amazing thing. We tend to follow each other. Sometimes there are good reasons to do this. Sometimes there aren't. For example, consider rotary finish mowers. A few decades ago a company turned a farm tractor backwards and put a fixed 72" deck on the front. It was easier to maneuver and the operator didn't need to look backwards to keep from crashing the deck into trees. People started buying them. Other manufacturers saw what was happening and followed. Pretty soon everybody had one and commercial finish mowers were defined.

Manufacturers then stopped looking for better ways to mow. They were too busy building backward tractors with six-foot decks. They didn't hear the discontent. Most people didn't like to scalp grass, but six-foot wide finish mowers had to scalp, didn't they? Most people wanted more width, but wouldn't that have made the scalping problem even worse? Most people would have liked to change cutting heights from the seat, but decks on backward tractors couldn't do that, could they? Scores of operators were injured over the years because their mowers tipped over when they cut steep banks. But all mowers just did that, didn't they? Weren't those areas supposed to be cut by hand? As odd as it seems, most people just accepted these myths.

In 1990 LasTec exposed the myth that wide decks need to scalp with the introduction of our PTO-driven Articulator. Now we are exposing a similar myth about self-contained finish mowers with our revolutionary Model 425D. Our decks are 8 feet wide and over three times as accurate as everyone else's six-foot deck. Our extra width makes us more productive and lets the deck reach over 2 feet past the main side of our drive unit. This lets us reach over and under things that used to require hand mowing. Our scuff-proof, zero-turning-radius configuration means that we don't need a 15 foot circle to turn our mower around. We also handle side banks that can tip most mowers upside down and we can even change cutting heights from the seat. Aren't all of these features any customer would like on a finish mower? We think so, but backward tractors can't do those things. LasTec's Model 425D Articulator can.

We could go on and on about the hundreds of other things you can do with our mower that older equipment can't do, but we won't. We simply ask you to consider leading instead of following the crowd.



Four 25" articulating cutting decks duplicate the cut quality of four individual push mowers.

The Articulator. The best performance.  
The best quality. The best value. The best, period.

### The 425D Articulator Specifications

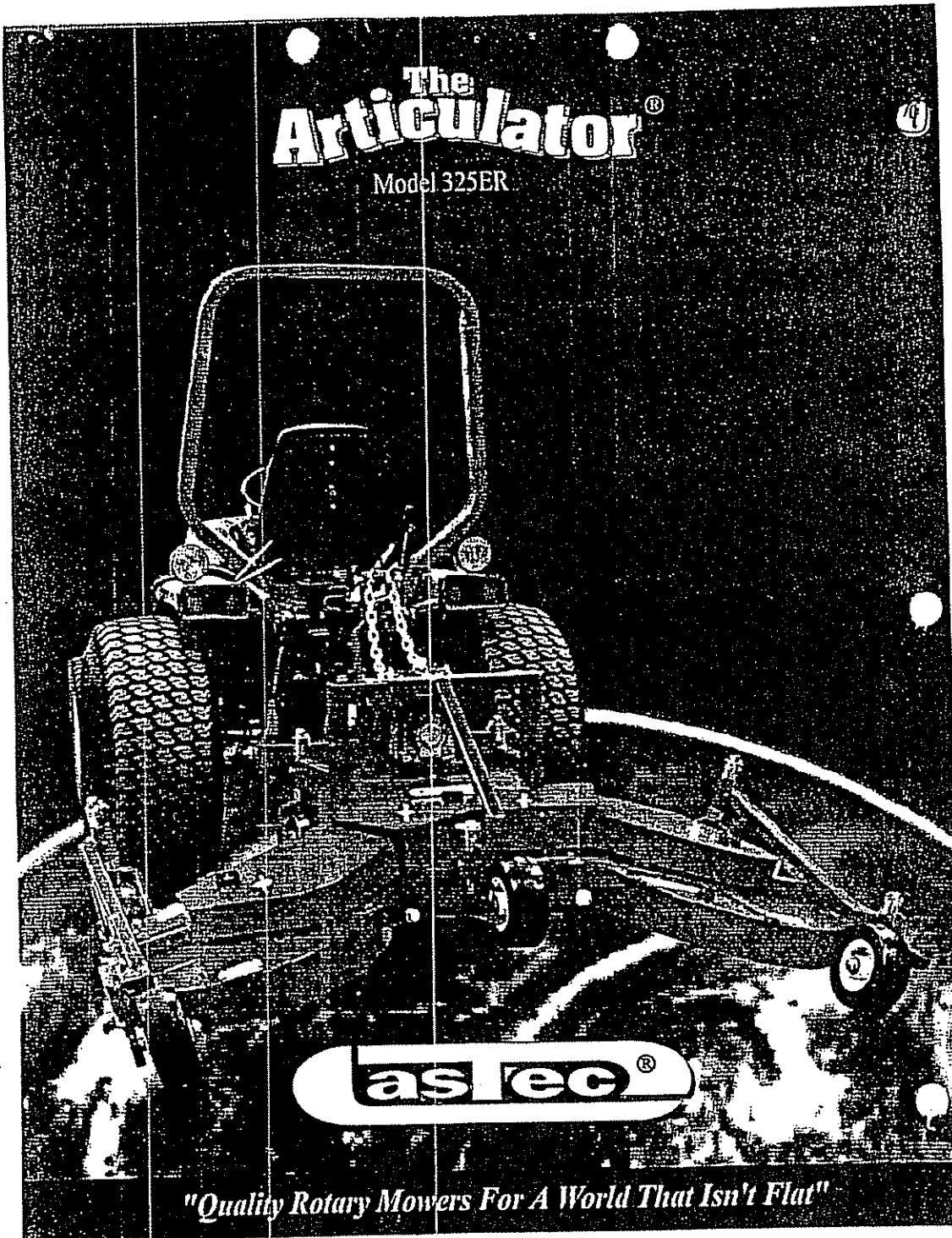
Configuration	Unique Front/Mid-Mount Low Center of Gravity
Engine	Kubota 4-Cylinder 38HP Water-Cooled Diesel
Drive	Hydrostatic Transmissions with Dual High and Low-Pressure Coolers
Drive Tires	24" Diameter, 13" Wide Turf-Tread
Primary Deck Drive	Gearbox through Electric Clutch/Brake
Deck Drive	Patent Pending, Highly Efficient Self-Adjusting Belt Drive
Deck Width	98" Cutting Capacity with 30" Trim Side Overhang
Cutting Height Range	1" to 4"
Deck Type	Four Articulating 25" Rotary Decks That Side-Discharge or Mulch
Deck Construction	3/16" Steel Plate Weldments with Rebuildable Spindles and Spindle Housings
Hydraulic Controls	Standard Auxiliary Hydraulics with Control Valve
Overall Weight	2015 Pounds
Overall Dimensions	98" Wide, 98" Long, 39" Tall (at top of seat), 64" Tall (at top of roll bar).
ROPS	Certified Roll Bar Standard
Lights	Headlights and Flashers Standard
Options	Sun Canopy, Golf Ball Net, Blower, Snow Blade, Sweeper

Specifications subject to change without notice. Patents Pending.

Phone: 1-800-515-6798  
Call for the LasTec dealer nearest you.

Indianapolis, IN 46214-2400 • (317) 273-1122  
<http://www.lasTec.com>

Fax: (317) 271-4228  
Limited dealer opportunities available.



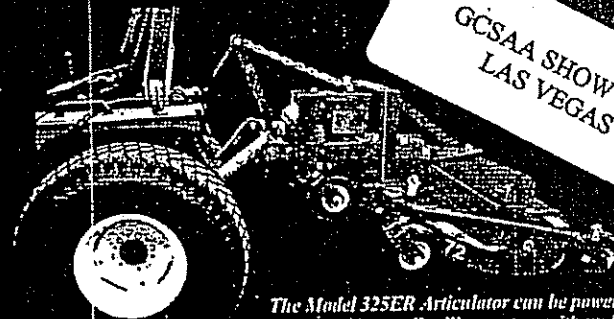
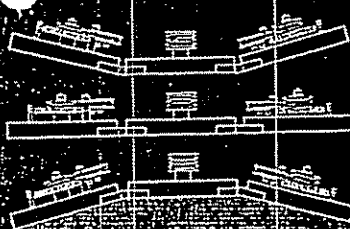
# Introducing the Model 325ER Articulator

## A PTO Driven 72" Articulating Grooming Mower That Thinks It's Three 25" Push Mowers

The world's finest golf courses cut with Articulators because they can afford the best. Now the best has become more affordable. The Model 325ER is a three deck version of the Articulators that cut the extreme terrain of the best championship courses. No scalping. No missed grass. That's the Articulator trademark. A trademark of perfectly grooming the most extreme green surrounds, elevated tee beds, bunkers, or even the contours of your backyard.

Side discharge and mulching capabilities make the Model 325ER safe and versatile for any finish mowing application. Coupled with a small utility tractor, it surpasses the productivity and quality of self-propelled mowers at a fraction of their cost. The rear mounted location and high lift blades even eliminate tractor wheel marks. The Articulator. The best quality. The best value. The best, period.

Three 25" articulating cutting decks duplicate the cut quality of three individual push mowers.



The Model 325ER Articulator can be powered and transported by small utility tractors with under 20 HP.

GCSAA SHOW 1997  
LAS VEGAS

### The Model 325ER Articulator General Specifications

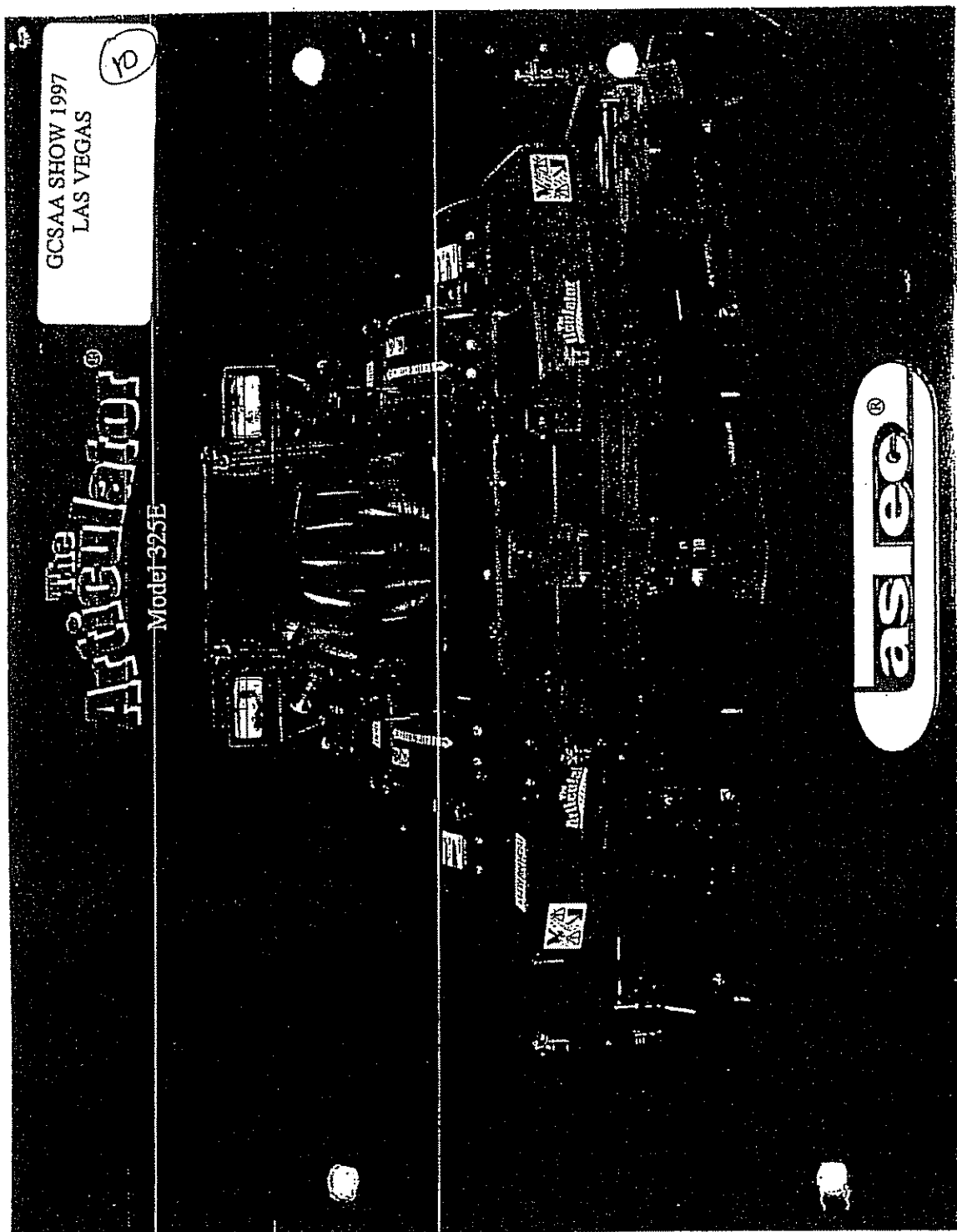
Overall Cutting Width.....	72"
Cutting Deck Diameter.....	25"
Cutting Height Range.....	1" to 4"
Cutting Deck Pan Material.....	3/16" Steel Plate
Weight.....	490 Lbs.
Tractor Requirement (minimum).....	18 HP 540 RPM Category One 3-Point Hitch
Drive System.....	PTO Shaft to Right Angle Gearbox to Belts
Blade Tip Speed.....	17,000 FPM (@ 540 RPM PTO Speed)
Blade Type.....	25" x 2 1/2" x 1/4" Rotary, High Lift, Hardened Steel
Wheels.....	9" Diameter Urethane Filled, 3.4" Automotive Tapered Roller Bearings, Rebuildable
Blade Spindles.....	1 1/4" Diameter, Sealed Ball Bearings, Greasable, Rebuildable
Wheel Yoke Pivot Collars.....	Sleeved With Bronze Bushings, Greasable, Rebuildable

Patents Pending All Specifications Subject to Change Without Notice Printed in the USA

The  
**Articulator®**

Las Tec Inc. 7865 N CR 100E Lizton, IN 46149 Phone (317) 892-4444 Fax (317) 892-4188

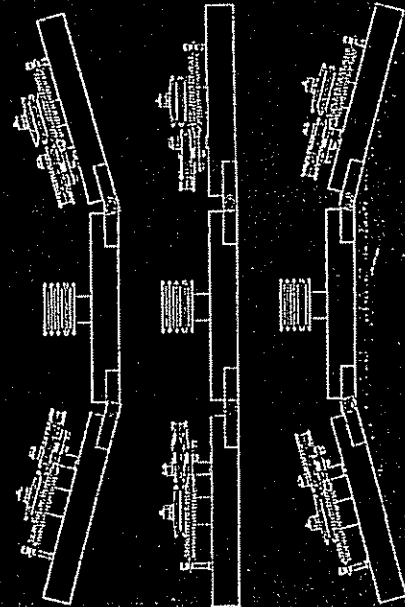




# In 1492 Columbus Discovered That The World Wasn't Flat

## Over Five Centuries Later LasTec Did Something About It

LasTec builds quality mowers for a world that isn't flat. That's why our 325E floats three 25" decks to cut a 72" path and why it's wide and low to the ground. We believe contoured ground should be cut, not scalped. The best turf professionals in the world agree. That's why every active player in the PGA has played on grass cut by an Articulator. Discover the difference. Discover LasTec.



Use any of  
three control  
positions

Foot Controls From Riding Position

Hand Controls From Walking Position

Hand Controls From Riding Position

**astec®**

**Model 325E**

Headlights

3" Dampened Suspension Seat

22 HP Kohler Engine

Dual Oil Coolers

Hand Controls

Front Instrument Panel

Foot Controls

Full Walking Controls

36" Overall Height

Flashers

Dual 5-Gallon Fuel Tanks

Hydrostatic Drive

20" Drive Tires

Foam-Filled Deck Wheels

56" Drive-Wheel Stance

72" Articulating Deck

Pivoting Front Axle

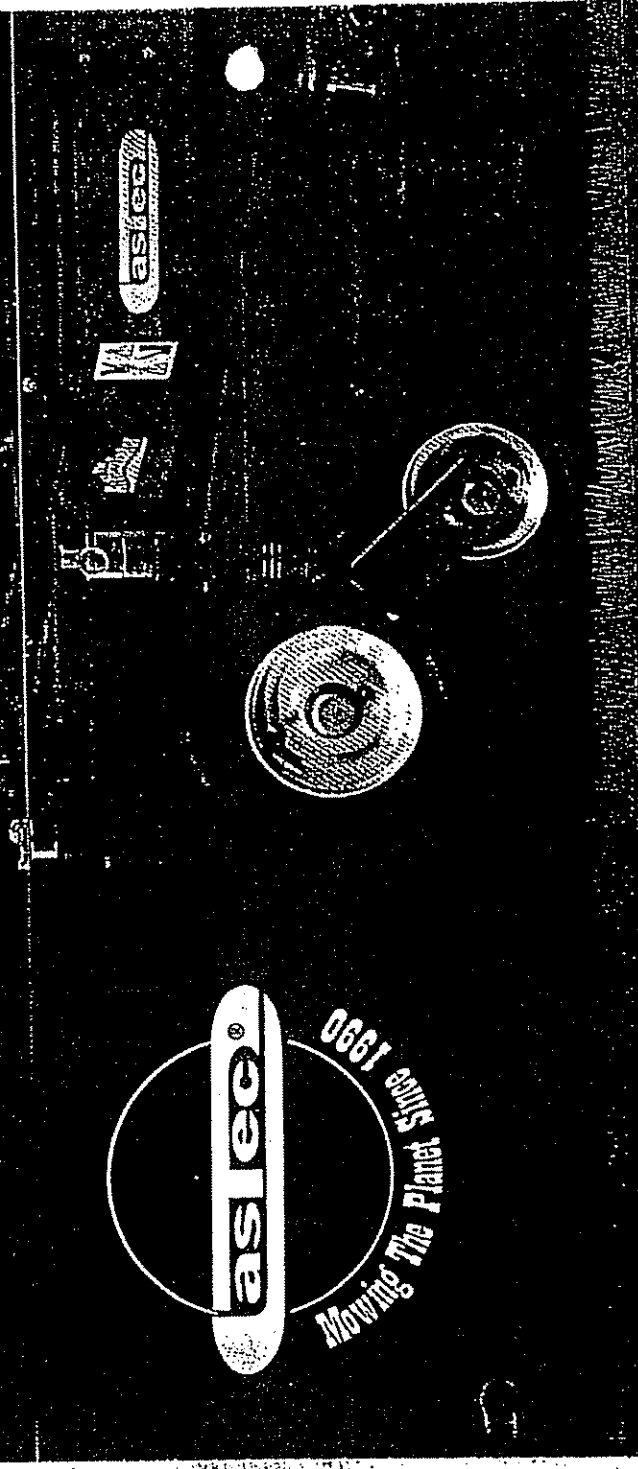
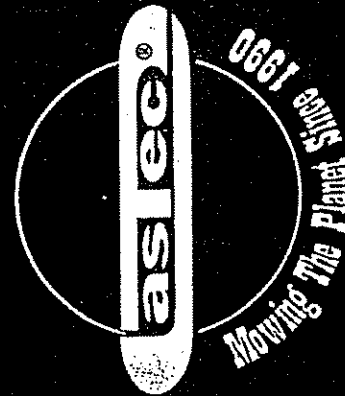
**No. We didn't set out to make the 325E Articulator look like a race car.**

Our goal was to produce the most versatile, safe, and accurate self-contained rotary finish mower in the world. The design parameter for the drive unit was to safely deliver the cutting decks to and from the type of extreme terrain which they are capable of cutting. It needed to be low to the ground, as wide as it was long for side-hill stability, and have a lower center of gravity by moving the operator to a safe, cradled position forward of the engine. In general, it needed the handling characteristics of a high-performance race car. The fact that it looks like it could win the Indy 500 is just a bonus.



# Boldly Mow Where No Man Has Gone Before

The 325E Articulator defies comparison to any other mower. Defies comparison of *stability* born of its low center of gravity, of *cut quality* created by three fully articulating 25" decks in its 72" cutting path, of *flexibility* resulting from both walking *and* riding controls, and of *operator comfort* through the innovation of hand and foot control from the seat. Amazing things happen when you choose to take a different path. Come and join us on our journey.

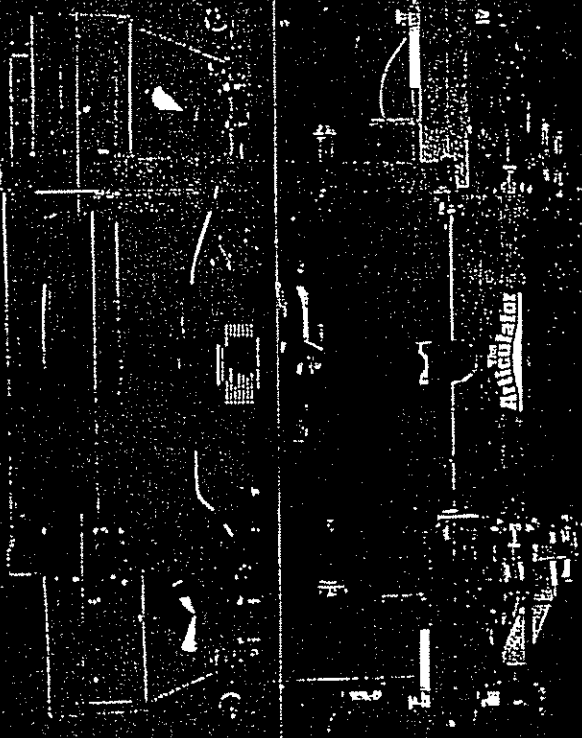




# If Mowing Grass Was A Race This Is The Only View Our Competitors Would Ever Have

LasTec has been building mowers for the high-end golf industry since 1990. All LasTec equipment is sold and serviced through a select group of turf dealers around the world. If you would like to find out more about the entire Articulator line of turf equipment, call the factory for the dealer nearest you.

72" Cutting Width  
1" to 4" Cutting Heights  
Three 25" Articulating Decks  
Complete Set of Walking Controls  
Dual Hand & Foot Riding Controls  
Hydraulic Drive with Dual Oil Cooled  
22 HP Kohler Command Line  
Patent Pending Belt Drive System  
Headlights with Hazard Flashers  
Foam-Filled Deck Gauge Wheels  
Dual 5 Gallon Fuel Tanks



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